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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/531,544	09/26/2005	Brian L. Hoh	62032US(51588)	3874	
	7590 01/10/2008 SELL PALMER & DODG	EIID	EXAMINER		
P.O. BOX 5587	EWARDS ANGELL PALMER & DODGE LLP P.O. BOX 55874			FORD, ALLISON M	
BOSTON, MA	02205		FORD, ALLISON M ART UNIT PAPER 1651	PAPER NUMBER	
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			MAIL DATE	DELIVERY MODE	
			01/10/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/531,544	HOH ET AL.				
Office Action Summary	Examiner	Art Unit				
	Allison M. Ford	1651				
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet w	ith the correspondence a	address			
A SHORTENED STATUTORY PERIOD FOR REI WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perion is period for reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI 1.136(a). In no event, however, may a lood will apply and will expire SIX (6) MON tute, cause the application to become Al	CATION. reply be timely filed ITHS from the mailing date of this BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
· _ ·	his action is non-final.	•				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice unde	er Ex parte Quayle, 1935 C.D). 11, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-62</u> is/are pending in the applicati	on.					
4a) Of the above claim(s) is/are withd	•					
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) \boxtimes Claim(s) <u>1-62</u> are subject to restriction and/	or election requirement.					
Application Papers			•			
9) The specification is objected to by the Exam	iner.					
10) The drawing(s) filed on is/are: a) a	ccepted or b) objected to	by the Examiner.				
Applicant may not request that any objection to t	he drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the corr	ection is required if the drawing	(s) is objected to. See 37	CFR 1.121(d).			
11) The oath or declaration is objected to by the	Examiner. Note the attached	d Office Action or form F	PTO-152.			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for forei	gn priority under 35 U.S.C. §	§ 119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
 Certified copies of the priority docume 						
2. Certified copies of the priority docume						
Copies of the certified copies of the p	riority documents have been	received in this Nationa	al Stage			
application from the International Bur	, , , , , , , , , , , , , , , , , , , ,					
* See the attached detailed Office action for a I	ist of the certified copies not	received.				
Attachment(s)	· 					
1) Notice of References Cited (PTO-892)		Summary (PTO-413) s)/Mail Date				
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) 		nformal Patent Application				
Paper No(s)/Mail Date	6) 🗌 Other:	 ·				

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DETAILED ACTION

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-16, drawn to a first method, comprising regulating aneurysm formation, growth and/or stability, by administering a composition comprising a matrix material and cells in two components that yield a polymer scaffold.

Group II, claim(s) 17-33, drawn to a second method, comprising increasing endothelialization or development of a neoendothelium across an aneurysm ostium, by administering a composition comprising a matrix material and cells in two components that yield a polymer scaffold.

Group III, claim(s) 49-50, drawn to a second product, which comprises two cannulae, one of which comprises a matrix material.

Group IV, claim(s) 51-61, drawn to a method of increasing endothelialization, by administering a third product comprising a biocompatible material comprising cells.

Group V, claim(s) 62, drawn to a third method, comprising reducing or eliminating coil compaction, by administering a composition comprising a matrix material and cells in two components that yield a polymer scaffold.

The inventions listed as Groups I-V do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the inventions, as claimed, lacks unity *a priori*.

An international or a national stage application containing claims to different categories of invention will be considered to have unity of invention if the claims are drawn only to one of the following combinations of categories: (1) a product and a process specially adapted for the manufacture of said product; (2) a product and a process of use of said product; (3) a product, a process specially

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adapted for the manufacture of the said product, and a use of the said product; (4) a process and an apparatus or means specifically designed for carrying out the said process; or (5) a product, a process specially adapted for the manufacture of the said product, and an apparatus or means specifically designed for carrying out the said process. If multiple products, processes of manufacture or uses are claimed, the first invention of the category first mentioned in the claims of the application and the first recited invention of each of the other categories related thereto will be considered as the main invention in the claims. See 37 C.F.R. 1.475.

In the instant case, the first category mentioned in the claims is the method of claim 1: regulating aneurysm formation, growth and/or stability by administering a composition comprising a matrix material and cells in two components, that, when combined, yield a polymer scaffold comprising the cells. Claim 1, and the claims depending therefrom, recite a process of using a product, the product being the composition. Therefore, Inventive Group I is considered to be the main invention, and unity of invention exists between the product (the composition administered in claim 1), a process specially adapted for the manufacture of the said product, and the use of the said product (the method of claim 1).

The claims of Inventive Group II are directed to a *second* method of using the composition of the main invention, thus these claims are not considered to share unity of invention.

The claims of Inventive Group III are directed to a *second* product, distinct from the product of the main invention, thus these claims are not considered to share unity of invention.

The claims of Inventive Group IV are directed to a *third* product, distinct from the product of the main invention, thus these claims are not considered to share unity of invention.

Finally, the claims of Inventive Group V are directed to a *third* method of using the composition of the main invention, thus these claims are not considered to share unity of invention.

Furthermore, it is noted this application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

- 1. Species of Cells: a) vascular cells, b) endothelial cells, c) stem cells
- 2. Species of matrix materials: d) fibrin, e) fibrinogen, f) collagen, g) polyorthoesters, h) polyvinyl alcohols, i) polyamides, j) polycarbonates, k) polyvinyl pyrrolidone, l) marine adhesive proteins, m) cyanoacrylates, n) mixtures of any of d)-m) (specific combination must be set forth)
- 3. Additional component to be included in the 'second component': o) enzymes, p) ions, including calcium q) growth factors, r) biologic agents, including thrombin

Applicant is required, in reply to this action, to elect a single species from each of the THREE (3) groups above, to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the

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following reasons: Pursuant to PCT Rule 13.2 and PCT Administrative Instructions, Annex B, Part 1(f)(I)(B)(2), the species are not art recognized equivalents.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Allison M. Ford whose telephone number is 571-272-2936. The examiner can normally be reached on 7:30-5 M-Th, alternate Fridays.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Wityshyn can be reached on 571-272-0926. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Leon & Lankford, Jr Primary Examiner Art Unit 1651